

Amendment under PCT Article 34

## CLAIMS

1. (Amended) A foil for a cathode of a capacitor, comprising:  
5 an aluminum foil; and  
a carbon-containing layer formed on a surface of said aluminum foil,  
the foil further comprising:  
an interposition layer that is formed between said aluminum foil  
and said carbon-containing layer and contains aluminum and carbon,  
10 wherein  
said carbon-containing layer is formed so as to extend outward from  
the surface of said aluminum foil.
2. The foil for a cathode of a capacitor according to claim 1, wherein  
said carbon-containing layer includes therein an interposition material  
15 containing aluminum and carbon.
3. (Deleted)
4. The foil for a cathode of a capacitor according to claim 1, wherein  
said interposition layer constitutes a first surface portion that is  
formed on at least a part of the surface of said aluminum foil and contains a  
20 carbide of aluminum, and  
said carbon-containing layer constitutes a second surface portion  
that is formed so as to extend outward from said first surface portion.
5. A manufacturing method of a foil for a cathode of a capacitor,  
comprising the steps of:  
25 arranging an aluminum foil in a space containing a

hydrocarbon-containing substance; and

heating said aluminum foil.

6. The manufacturing method of a foil for a cathode of a capacitor .  
according to claim 5, wherein said step of arranging the aluminum foil  
5 involves adhering at least one kind selected from the group consisting of a  
carbon-containing substance and an aluminum powder to a surface of the  
aluminum foil and, then, arranging the aluminum foil in a space containing  
a hydrocarbon-containing substance.

7. The manufacturing method of a foil for a cathode of a capacitor  
10 according to claim 5, wherein said step of heating the aluminum foil is  
carried out within a temperature range between 450°C or more and less  
than 660°C.